DATE OUT:

SUBJECT: **STORAGE STABILITY (830.6317) & CORROSION CHARACTERISTICS (830.6320) REVIEW**
ACCELERATED STUDY [ ]; ONE YEAR STUDY [X];
OVER 1 YEAR STUDY [ ]
MP [ ] EP [X] EUP [ ]
DP BARCODE No.: 354426 REG. No.: 82542-3
DECISION No.: 397089 MRID No(s): 474420-01
PRODUCT NAME: PARAQUAT CONCENTRATE
COMPANY: SOURCE DYNAMICS, LLC

FROM: **William Herald / Reviewer** WHerald SBm, 01/24/08.
Product Chemistry Team
Technical Review Branch/RD (7505P)

TO: **James Tompkins / Hope Johnson , RM 25**
Herbicide Branch / RD (7505P)

I. CONCLUSIONS:

STORAGE STABILITY (830.6317):
[X] ACCEPTABLE
[ ] UNACCEPTABLE*
[ ] UPGRADEABLE*

40CFR158.190 DATA REQUIREMENT: [X] SATISFIED [ ] NOT SATISFIED

CORROSION CHRACTERISTICS (830.6320):
[X] ACCEPTABLE
[ ] UNACCEPTABLE*
[ ] UPGRADEABLE*

40CFR158.190 DATA REQUIREMENT: [X] SATISFIED [ ] NOT SATISFIED

*** If unacceptable or upgradeable describe the deficiency and provide recommendations**

Comments & Recommendations:

Sbm/01/24/07

II. STUDY SUMMARY

A. STUDY CONDUCTED UNDER US GLP/OECD GUIDELINES

[X] Yes
[ ] No

B. PRODUCT INFORMATION

Active ingredient(s): Paraquat dicholoride
Label claims Nominal concentration (%): 43.2%
Initial concentration(s) of the AI(s) (%) used in the study: 43.36%
Lower certified limits (%) based on AI % in the study: 42.0592%

C. EXPERIMENTAL PARAMETERS

Temperature: At ambient temperatures ranging between 20°C to 27°C in an area of a laboratory dedicated to long-term storage.
Duration of study: 1 year;
Type of container: HDPE bottles.
Analysis at intervals: [X] 0 (initial);
[X] 3 months; [X] 6 months; [X] 9 months; [X] 12 months.

D. ANALYTICAL METHOD

Method	DETECTOR
High Pressure Liquid chromatography (HPLC)	□ UV/VIS 290nm

E. RESULTS:

The report shows that following the initial characterization of the AI:

1) After storage at ambient temperatures ranging between 20°C to 27°C for periods of 3, 6, 9, and 12 months the AI% remained well within the statutory parameters in Title 40 CFR § 158-350.

2) There were no reported impurities at any point during the 12 month study.

3) There were no reported adverse reactions involving the product with the HDPE containers. The reported weights of the containers remained exactly the same through the entire course of the study.

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